#2

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RAW SEQUENCE LISTING   DATE: 02/22/2002
PATENT APPLICATION: US/10/060,990   TIME: 16:10:17

Input Set : **F:\pto_PB0176.txt**
Output Set: **N:\CRF3\02222002\J060990.raw**

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 1 <110> APPLICANT: Gu, Yizhong
 2        Nguyen, Cung-Tuong
 4 <120> TITLE OF INVENTION: HUMAN RALGDS-LIKE PROTEIN 3
 6 <130> FILE REFERENCE: PB0176
 8 <140> CURRENT APPLICATION NUMBER: US/10/060,990
 8 <141> CURRENT FILING DATE: 2002-01-30
 8 <150> PRIOR APPLICATION NUMBER: PCT/US01/00666
 9 <151> PRIOR FILING DATE: 2001-01-30
11 <150> PRIOR APPLICATION NUMBER: PCT/US01/00667
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14 <150> PRIOR APPLICATION NUMBER: PCT/US01/00664
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33 <151> PRIOR FILING DATE: 2001-05-23
35 <150> PRIOR APPLICATION NUMBER: US 60/326,105
36 <151> PRIOR FILING DATE: 2001-09-28
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43 <211> LENGTH: 2496
44 <212> TYPE: DNA
45 <213> ORGANISM: Homo sapiens
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51 cccattgcca ataccttcct ccactatcga accagcaagg tgagggtgct gagggcagcg 240
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53 atgcccgcct tcctggccac ctaccggacc tttgtaccca ctgcctgcct gctgggcttt 360
54 ctgctgccac caatgccacc gccccacct cccggggtag agatcaagaa gacagcggta 420
55 caagatctga gcttcaacaa gaacctgagg gctgtggtgt cagtgctggg ctcctggctg 480
56 caggaccacc tcaggatttt ccgagaccac cctgcccatt cggacctggg cagtgtccga 540
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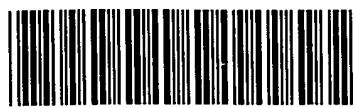
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59 ggacctccca gagttgccca aacttctgac ccagactctt cagaggcctg cgcggaggaa 720
60 gaggaagggc tcatgcctca aggtccccag ctcctggact tcagcgtgga cgaggtggcc 780
61 gagcagctga ccctcataga cttggagctc ttctccaagg tgaggctcta cgagtgcttg 840
62 ggctccgtgt ggtcgcagag ggaccggccg ggggctgcag gcgcctcccc cactgtgcgc 900
63 gccaccgtgg cccagttcaa caccgtgacc ggctgtgtgc tgggttccgt gctcggagca 960
64 ccgggcttgg ccgccccgca gagggcgcag cggctggaga agtggatccg catcgcccag 1020
65 cgctgccgag aactgcggaa cttctcctcc ttgcgcgcca tcctgtccgc cctgcaatct 1080
66 aaccccatct accggctcaa gcgcagctgg ggggcagtga gccgggaacc gctatctact 1140
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68 cttttccagg aggaggccac tgagggatcc caagaagagg acaacacccc aggcagcctg 1260
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81 gtgccccagc cctgggcctg tgactatcag ctctttcaag tccttcctgg ggaccgggtg 2040
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84 agccctgtcc tctccacaag acacaagtcc cacaggcaag cttgcgactc ttctcctgga 2220
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88 catggatacg tcaaatccct ccccagagaa atcttataaa tgttagagac gcatcagaag 2460
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93 <212> TYPE: DNA
94 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 2
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99 ccggcggagg gccccggggg cagccaggct cccagcccca ttgccaatac cttcctccac 180
100 tatcgaacca gcaaggtgag ggtgctgagg gcagcgcgcc tggagcggct ggtgggagag 240
101 ttggtgtttg gagaccgtga gcaggacccc agcttcatgc ccgccttcct ggccacctac 300
102 cggacctttg tacccactgc ctgcctgctg ggctttctgc tgccaccaat gccaccgccc 360
103 ccacctcccg gggtagagat caagaagaca gcggtacaag atctgagctt caacaagaac 420
104 ctgagggctg tggtgtcagt gctgggctcc tggctgcagg accaccctca ggatttccga 480
105 gaccaccctg cccattcgga cctgggcagt gtccgaacct ttctgggctg ggcggcccca 540
106 gggagtgctg aggctcaaaa agcagagaag cttctggaag attttttgga ggaggctgag 600
107 cgagagcagg aagaggagcc gcctcaggtg tggacaggac ctcccagagt tgcccaaact 660
108 tctgacccag actcttcaga ggcctgcgcg gaggaagagg aagggctcat gcctcaaggt 720
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109 ccccagctcc tggacttcag cgtggacgag gtggccgagc agctgaccct catagacttg 780
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111 cggccggggg ctgcaggcgc ctcccccact gtgcgcgcca ccgtggccca gttcaacacc 900
112 gtgaccggct gtgtgctggg ttccgtgctc ggagcaccgg gcttggccgc cccgcagagg 960
113 gcgcagcggc tggagaagtg gatccgcatc gcccagcgct gccgagaact gcggaacttc 1020
114 tcctccttgc gcgccatcct gtccgccctg caatctaacc ccatctaccg gctcaagcgc 1080
115 agctggggggg cagtgagccg ggaaccgcta tctactttca ggaaactttc gcagattttc 1140
116 tccgatgaga acaaccacct cagcagcaga gagattcttt tccaggagga ggccactgag 1200
117 ggatcccaag aagaggacaa caccccaggc agcctgccct caaaaccacc cccaggccct 1260
118 gtcccctacc ttggcacctt ccttacggac ctggttatgc tggacacagc cctgccggat 1320
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120 cgcatccagc agctgcagag gcgctgtcag agctacaccc tgagcccccca cccgcccatc 1440
121 ctggctgccc tgcatgccca gaaccagctc accgaggagc agagctaccg gctctcccgg 1500
122 gtcattgagc caccagctgc ctcctgcccc agctccccac gcatccgacg gcggatcagc 1560
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125 agaagcagag atgctcctgc tggcagtccc ccggcctctc cagggcccca gggcccccagc 1740
126 accaagctgc ccctgagcct ggacctgccc agcccccggc ccttcgcttt gcctctgggc 1800
127 agccctcgaa tcccccctccc ggcgcagcag agctcggagg cccgtgtcat ccgcgtcagc 1860
128 atcgacaatg accacgggaa cctgtatcga agcatcttgc tgaccagtca ggacaaagcc 1920
129 cccagcgtgg tccggcgagc cttgcagaag cacaatgtgc cccagccctg ggcctgtgac 1980
130 tatcagctct ttcaagtcct tcctggggac cgggtgctcc tgattcctga caatgccaac 2040
131 gtcttctatg ccatgagtcc agtcgccccc agagacttca tgctgcggcg gaaagagggg 2100
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134 <210> SEQ ID NO: 3
135 <211> LENGTH: 710
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens

139 <400> SEQUENCE: 3

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143 Trp Gly Glu Glu Thr Glu Asp Gly Ala Val Tyr Ser Val Ser Leu Arg
144             20                  25                  30
146 Arg Gln Arg Ser Gln Arg Arg Ser Pro Ala Glu Gly Pro Gly Gly Ser
147             35                  40                  45
149 Gln Ala Pro Ser Pro Ile Ala Asn Thr Phe Leu His Tyr Arg Thr Ser
150     50                  55                  60
152 Lys Val Arg Val Leu Arg Ala Ala Arg Leu Glu Arg Leu Val Gly Glu
153 65                  70                  75                  80
155 Leu Val Phe Gly Asp Arg Glu Gln Asp Pro Ser Phe Met Pro Ala Phe
156             85                  90                  95
158 Leu Ala Thr Tyr Arg Thr Phe Val Pro Thr Ala Cys Leu Leu Gly Phe
159             100                 105                 110
161 Leu Leu Pro Pro Met Pro Pro Pro Pro Pro Gly Val Glu Ile Lys
162         115             120                 125
164 Lys Thr Ala Val Gln Asp Leu Ser Phe Asn Lys Asn Leu Arg Ala Val
165     130                 135                 140
167 Val Ser Val Leu Gly Ser Trp Leu Gln Asp His Pro Gln Asp Phe Arg
168 145                 150                 155                 160
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171             165                 170             175
173 Trp Ala Ala Pro Gly Ser Ala Glu Ala Gln Lys Ala Glu Lys Leu Leu
174             180             185             190
176 Glu Asp Phe Leu Glu Glu Ala Glu Arg Glu Gln Glu Glu Glu Pro Pro
177         195             200             205
179 Gln Val Trp Thr Gly Pro Pro Arg Val Ala Gln Thr Ser Asp Pro Asp
180     210             215             220
182 Ser Ser Glu Ala Cys Ala Glu Glu Glu Glu Gly Leu Met Pro Gln Gly
183 225             230             235             240
185 Pro Gln Leu Leu Asp Phe Ser Val Asp Glu Val Ala Glu Gln Leu Thr
186             245             250             255
188 Leu Ile Asp Leu Glu Leu Phe Ser Lys Val Arg Leu Tyr Glu Cys Leu
189             260             265             270
191 Gly Ser Val Trp Ser Gln Arg Asp Arg Pro Gly Ala Ala Gly Ala Ser
192         275             280             285
194 Pro Thr Val Arg Ala Thr Val Ala Gln Phe Asn Thr Val Thr Gly Cys
195     290             295             300
197 Val Leu Gly Ser Val Leu Gly Ala Pro Gly Leu Ala Ala Pro Gln Arg
198 305             310             315             320
200 Ala Gln Arg Leu Glu Lys Trp Ile Arg Ile Ala Gln Arg Cys Arg Glu
201             325             330             335
203 Leu Arg Asn Phe Ser Ser Leu Arg Ala Ile Leu Ser Ala Leu Gln Ser
204             340             345             350
206 Asn Pro Ile Tyr Arg Leu Lys Arg Ser Trp Gly Ala Val Ser Arg Glu
207         355             360             365
209 Pro Leu Ser Thr Phe Arg Lys Leu Ser Gln Ile Phe Ser Asp Glu Asn
210     370             375             380
212 Asn His Leu Ser Ser Arg Glu Ile Leu Phe Gln Glu Glu Ala Thr Glu
213 385             390             395             400
215 Gly Ser Gln Glu Glu Asp Asn Thr Pro Gly Ser Leu Pro Ser Lys Pro
216             405             410             415
218 Pro Pro Gly Pro Val Pro Tyr Leu Gly Thr Phe Leu Thr Asp Leu Val
219             420             425             430
221 Met Leu Asp Thr Ala Leu Pro Asp Met Leu Glu Gly Asp Leu Ile Asn
222             435             440             445
224 Phe Glu Lys Arg Arg Lys Glu Trp Glu Ile Leu Ala Arg Ile Gln Gln
225     450             455             460
227 Leu Gln Arg Arg Cys Gln Ser Tyr Thr Leu Ser Pro His Pro Pro Ile
228 465             470             475             480
230 Leu Ala Ala Leu His Ala Gln Asn Gln Leu Thr Glu Glu Gln Ser Tyr
231             485             490             495
233 Arg Leu Ser Arg Val Ile Glu Pro Pro Ala Ala Ser Cys Pro Ser Ser
234             500             505             510
236 Pro Arg Ile Arg Arg Arg Ile Ser Leu Thr Lys Arg Leu Ser Ala Lys
237         515             520             525
239 Leu Ala Arg Glu Lys Ser Ser Ser Pro Ser Gly Ser Pro Gly Asp Pro
240     530             535             540
242 Ser Ser Pro Thr Ser Ser Val Ser Pro Gly Ser Pro Pro Ser Ser Pro
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243 545                     550                     555                     560
245 Arg Ser Arg Asp Ala Pro Ala Gly Ser Pro Pro Ala Ser Pro Gly Pro
246                 565                     570                     575
248 Gln Gly Pro Ser Thr Lys Leu Pro Leu Ser Leu Asp Leu Pro Ser Pro
249             580                     585                     590
251 Arg Pro Phe Ala Leu Pro Leu Gly Ser Pro Arg Ile Pro Leu Pro Ala
252         595                     600                     605
254 Gln Gln Ser Ser Glu Ala Arg Val Ile Arg Val Ser Ile Asp Asn Asp
255     610                     615                     620
257 His Gly Asn Leu Tyr Arg Ser Ile Leu Leu Thr Ser Gln Asp Lys Ala
258 625                 630                     635                     640
260 Pro Ser Val Val Arg Arg Ala Leu Gln Lys His Asn Val Pro Gln Pro
261                 645                     650                     655
263 Trp Ala Cys Asp Tyr Gln Leu Phe Gln Val Leu Pro Gly Asp Arg Val
264             660                     665                     670
266 Leu Leu Ile Pro Asp Asn Ala Asn Val Phe Tyr Ala Met Ser Pro Val
267         675                     680                     685
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270     690                     695                     700
272 Leu Ser Val Ser Pro Ser
273 705                 710
275 <210> SEQ ID NO: 4
276 <211> LENGTH: 60
277 <212> TYPE: DNA
278 <213> ORGANISM: Homo sapiens
280 <400> SEQUENCE: 4
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283 <210> SEQ ID NO: 5
284 <211> LENGTH: 20
285 <212> TYPE: PRT
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 5
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292 Ile Ala Gln Arg
293             20
295 <210> SEQ ID NO: 6
296 <211> LENGTH: 57
297 <212> TYPE: DNA
298 <213> ORGANISM: Homo sapiens
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303 <210> SEQ ID NO: 7
304 <211> LENGTH: 114
305 <212> TYPE: DNA
306 <213> ORGANISM: Homo sapiens
308 <400> SEQUENCE: 7
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VERIFICATION SUMMARY
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L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date